

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

Date	15 April 2025
Team ID	SWTID1743695015
Project Name	Shopez: E-Commerce Application
Maximum Marks	4 Marks

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Login	Forgot Password (Reset link via Email) Change Password from Profile
FR-4	Password Management	Forgot Password (Reset link via Email) Change Password from Profile
FR-5	User Profile Management	View and Edit Profile Info Upload Profile Picture Manage Preferences
FR-6	Dashboard	Show Personalized Dashboard Show Recent Activities or Transactions

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	Ensure UI/UX design is intuitive, especially on mobile and tablets.
NFR-2	<b>Security</b>	Encrypt sensitive data and apply role-based access control.

NFR-3	<b>Reliability</b>	Should have mechanisms like retries, logging, and monitoring for robustness.
NFR-4	<b>Performance</b>	Should support 500 concurrent users with under 3-second response time.
NFR-5	<b>Availability</b>	Application should ensure 24/7 uptime with scheduled maintenance alerts.
NFR-6	<b>Scalability</b>	Should handle 10x increase in user base without degradation.
NFR-7	<b>Maintainability</b>	The system should allow easy debugging and modular updates.
NFR-8	<b>Portability</b>	The application should run on all major browsers and devices.
NFR-9	<b>Localization</b>	Support multiple languages based on user region.
NFR-10	<b>Auditability</b>	Maintain logs for all user and admin actions for auditing purposes.